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04/06/00  
jc781 U.S. PTO

PATENT APPLICATION

Box/see

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No: 28341/6227.1NCP

PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

jc530 U.S. PTO  
09/545199  
04/06/00

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): David E. Lowery, Troy E. Fuller and Michael J. Kennedy

Title: ANTI-BACTERIAL VACCINE COMPOSITIONS

1. Type of Application

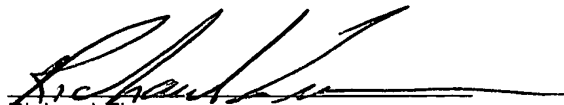
- ☒ This is a new application for a
  - ☒ utility patent.
  - ☐ design patent.
- ☐ This is a continuation-in-part application of prior application no.

2. Application Papers Enclosed

- 1 Title Page
- 53 Pages of Specification (excluding Claims, Abstract, Drawings & Sequence Listing)
- 8 Page(s) of Claims
- 1 Page(s) of Abstract
- 0 Sheet(s) of Drawings (Figs. \_\_\_ to \_\_\_)
  - ☐ Formal
  - ☐ Informal
- 259 Page(s) of Sequence Listing

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on **April 6, 2000**, in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EM362733684US.

  
Richard Zimmermann

**3. Declaration or Oath**

- ☐ Enclosed
  - ☐ Executed by (check all applicable boxes)
    - ☐ Inventor(s)
    - ☐ Legal representative of inventor(s)  
(37 CFR 1.42 or 1.43)
    - ☐ Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached
      - ☐ The petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 are enclosed. See Item 5D below for fee.
- ☒ Not enclosed - the undersigned attorney or agent is authorized to file this application on behalf of the applicant(s). An executed declaration will follow.

**4. Additional Papers Enclosed**

- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement
- ☐ Declaration of Biological Deposit
- ☒ Computer readable copy of sequence listing containing nucleotide and/or amino acid sequence and statement under 37 C.F.R. §1.821
- ☐ Microfiche computer program
- ☐ Verified statement(s) claiming small entity status under 37 CFR 1.9 and 1.27
- ☐ Associate Power of Attorney
- ☐ Verified translation of a non-English patent application
- ☐ An assignment of the invention
- ☒ Return receipt postcard
- ☐ Other

5. **Priority Applications Under 35 USC 119**

Certified copies of applications from which priority under 35 USC 119 is claimed are listed below and

☐ are attached.

☐ will follow.

COUNTRY	APPLICATION NO.	FILED

6. **Filing Fee Calculation (37 CFR 1.16)**

A. ☒ **Utility Application**

CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT (IF ANY)						
			SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	NO. FILED	NO. EXTRA	RATE	FEE	RATE	FEE
BASIC FEE				\$345.00		\$690.00
TOTAL	51 -20	= 31	X 9 =	\$	X 18 =	\$558.00
INDEP.	11 - 3	= 8	X 39 =	\$	X 78 =	\$624.00
<input checked="" type="checkbox"/> First Presentation of Multiple Dependent Claim			+ 130 =	\$	+ 260 =	\$260.00
Filing Fee:				\$	<b>OR</b>	\$2,132.00

B. ☐ **Design Application (\$155.00/\$310.00)** Filing Fee: \$ \_\_\_\_\_

C. ☐ **Plant Application (\$240.00/\$480.00)** Filing Fee: \$ \_\_\_\_\_

D. **Other Fees**

☐ Recording Assignment [Fee -- **\$40.00** per assignment] \$ \_\_\_\_\_

☐ Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached [Fee -- **\$130.00**] \$ \_\_\_\_\_

☐ Other \$ \_\_\_\_\_

**Total Fees Enclosed \$2,132.00**

7. Method of Payment of Fees

- ☒ Enclosed check in the amount of: \$2,132.00
- ☐ Charge Deposit Account No. 13-2855 in the amount of: \$ \_\_\_\_\_  
A copy of this Transmittal is enclosed.
- ☐ Not enclosed

8. Deposit Account and Refund Authorization

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 13-2855. A copy of this Transmittal is enclosed.

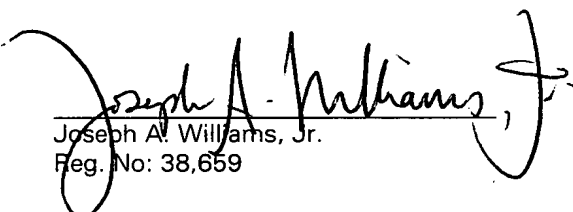
Please refund any overpayment to Marshall, O'Toole, Gerstein, Murray & Borun at the address below.

Please direct all future communications to Joseph A. Williams, Jr., at the address below.

Respectfully submitted,

MARSHALL, O'TOOLE, GERSTEIN,  
MURRAY & BORUN  
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By:

  
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Reg. No: 38,659

April 6, 2000